## Abstract

A genetic analysis device particularly for determining the presence or absence of Single Nucleotide Polymorphisms (SNPs) within specific The device includes a housing, sequences of DNA. least one glass slide member, at and elastomeric member with channels thereon. arrays are spotted on the glass slide member(s) and subjected to DNA samples, reagents or the A plurality of openings or ports allow entry of samples, reagents or wash materials, while a plurality of exit ports or openings allow removal of such materials. The assay devices can be used for multiple samples or a single sample. A plurality of synthesis devices can be positioned in a support base in order to allow sampling in an automated manner. The synthesis devices can be provided in a 96 well microtiter format.

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